ABSTRACT

A moving object detection apparatus capable of detecting a moving object at a high speed, with high accuracy and low processing load. This apparatus includes motion information extraction section (102) that extracts motion information from a video stream video-coded using a band division method whereby an image is divided into a reduced image, horizontal direction component, vertical direction component and diagonal direction component, and motion predictive compensation coding, edge information extraction section (103) that extracts information about the horizontal direction component, vertical direction component and diagonal direction component from more than one bit plane sequentially from a highest bit plane of the video stream and moving object detection section (106) that detects a moving object using the extracted motion information and edge information and outputs the detection result, and according to the apparatus, it is possible to eliminate the necessity for decoding the video stream and detect the moving object at a high speed, with high accuracy and low processing load.